

Send "Invite" Msg to VTE Server Select Person to Invite Invitation Obj **Participants** Session Messages Directory search Message Session Current Notes Topic Invite 율 436 ~ 424 430-428 432 426 434

FIG. 26 Set Up 2-Way Voice Communications Session

SSP Conf. (D) Bridge	-508		-528	Nouting Code	- 536	O Insert DN(B)							→
VYE Svr	504 O Translate 506 Marcall(DM/L), DN(B), Session (D) ISUP-IAM (DN-DN/A); CIC=E-ISUP(A))			SUP-IAM [Parity Code, CIC=E-ISUP(B)]		538 ISUP-IAM [DN=DN(B); CIC=E-ISUP(B)]		1	CallCreated (A,B)	- 554		****	
	504 506 506 IDN=DN			Parity Co)NG=NQ]	546	-552	A III	(Call,A,B)	(Call,A,B)		
© EISUP ©	ISUP-IAM			ISUP-IAM	€ 534	38) ISUP-IAN	- IStip-ACM	ISUP-ANM	Status Event (Call & B)	StatusEvent (Call, A, B)	StatusEvent (Call,A,B)		
	ر 510	518	256	ر 530	532—ISUP-ISUP-IAM		. 🗓	ns 1					
***				,	ISUP.				556	260	-564		
Ó Esur ⊘		MOA GI ISI	ISUP-ANM		532	540	244	ر 250					
(§ §)	512	516	-524				SUP-ACM	ISUP-ANM					→
(38) ——	512	ISUP-ACM	ISUP-ANM				"Ring" ISI			-		ssion	
(g) 88) ——		"Ring" ISU				5	7 9	040				O Display Session	990
VIE Clientica GUI GUI Ssion Type)			+				4	4		+	Session	↓ <mark>o</mark> ∠	· •
S S		514	250					_		_	Display Session		268
IN THE Cleants TYPE CHANGE OF THE CHANGE OF	· .		1				ļ	Answer		O Display Session	•		ION A,B
VTE Cliential State Cliential State Cliential State Session	505		Answer) 228 –		CONVERSATION A,B

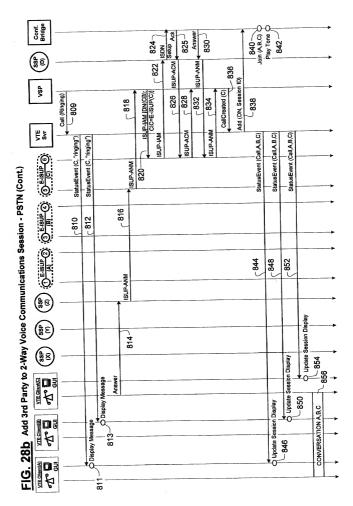
FIG. 27 Close 2-Way Voice Communications Session

	SSP Conf. (D) Bridge		S																→
	ds/		Archive Voice Comm. Session CloseSession (Session ID) 576		1		IP(A)]	1			ISUP-RLC	JP(B)]	1	·	losed	(A, B)			
	Svr	4		ISUP-REL [CIC=E-ISUP(A)]			ISUP-REL [CIC=E-ISUP(A)]				ISUSI	ISUP-REL [CIC=E-ISUP(B)]	2		SessionClosed	↓	01.0 /	- G	
1			574~	ISUP-						4	9	ISUP	.c C602			e,A,B,Close	e,A,B,Close	e,A,B,Close	
							288	ر 290		294	296	-009	ISUP-RLC	료	□ ↑	session Typ	Session Typ	Session Typ	-
	O E ISUP (C)			278	280				591	SUP-REL		99		ISUP-REL		Status Event (Sesssion Type, A.B. Closed)	StatusEvent (Session Type, A, B, Closed)	StatusEvent (Session Type, A, B, Closed)	
				G	O			ISUP-RLC	ISUP- 591		!			909	909				
	O E ISUP (Q)				ISUP-RLC	llai	†			-265				_	ISUP-RLC	612	919	ر620	
	(gg gg)				ISIIP-REL	√582	207	5						,	ISUP Ine line	Γ			-
	(SS)			_		SUP-RLC													ssion
	(g) S(S)	225				∱≅	idle line								809-			_	O Remove Session
	VIE CILERACO	5					286											O Remove Session	622 +
	VIE Gliente	O Select Close Session Close(Session ID)				_	· .										O Remove Session	- 4 2 2 2 2 3	→
	VTE Cliential V	O Selec									_						-	7	
-1	A K	-02-						¥									;	- 44	

FIG. 28 Add 3rd Party to 2-Way Voice Communications Session - PSTN

VSP SSP Conf.]									- 646	Session ID] 648	Create Session	650			O Kill REL		664	Setup
VTE]	828 Transition	Tanslate	-1				635		Add on (C(DN)	Session ID) NewSession IDN, Session ID]	SUP-REL [CIC=E-ISUP (A)]	1		1	658~C	ISUP-IAM [DN=DN(CB); CIC=E-ISUP(A)]		→
 (6):] }	828 4	StatusEvent (C, "pending")	Status Event (C, "pending")	ints, Session ID)		-	ranslate Session ID	StatusEvent (C, "trying")	StatusEvent (C, "trying")		C652 SUP-REL	-653		ر-656	-659	IAM [DN=DN(CB		→
:(9)	;	+	StatusEve	StatusEve	g Notes, Participa			Trans	StatusE	Status			٦				dnsi 099	ر-662	→
					Invitation (A, Topic Message, Meeting Notes, Participants, Session ID)								ISUP-RLC	654 ISUP	ISUP ISUP-REL	,	,	ISUP-IAM	→
		2		629	witation (A, Topic				-636	9638				92					-
dss (SS)) — 				631		-634												→
(SS)) — ⊒	essage, Meeting			<u>a</u> ,	O Display Invitation O Accept Invitation	Join(Session ID)				9								→
NTE Clonic	ق ا	AddParty (Session ID, C, Topic, Message, Meeting Notes)			O Display Message		633				O Display Message								→ →
VIE CHANTED	Select Add Party	ddParty (Session		O Display Message		630				Display Message	- 689								→
YTE CHANGA	I — 22			ŧō.	628					-8 27 40 10 10 10 10 10 10 10 10 10 10 10 10 10	3								→

	(D) Bridge	ISUP-ACM	200	ISUP-ANM A	0/9>			Play Message () 684 () 684 () 690	Setup Ack	693	ISUP-ANM Answer	969		(0	800	Play Tone) 700 		→
	S S S	999	,		Î	678 CallCreated (A)	ISUP-IAM [DN=DN(CB); CIC=E-ISUP(B)]		C 692		, 700 J	1	CallCreated (B)	Add (DN, Session ID)	7.06	Cic	ISUP-IAM [DIN=DIN(C), CIC-E- ISUP(C)]	ç	900
	₽\$ (©:					829	#=DN(CB);						704				W CO	20	
Ē.	(O EISUP (O		-668		ر 794		SUP-IAM [D]	989		- 694		ر702					\downarrow		ISUP-ACM
TN (Cor			9		9		989	MA		ACM		ISUP-ANM					ISUP-IAM	7	
ion - PS		_	SUP-ACM	-	ISUP-ANM			ISUP-IAM		ISUP-ACM	L.,	ISUP		_				∠807	-
Add 3rd Party to 2-Way Voice Communications Session - PSTN (Cont.)	O E SUP Q		∱ ≅	<u> </u>	. ∞ Ι			VI									902	2	
nunicati																		ISUP-ACM	
е Сотп	(ss)								,									"Ring"	
ay Voice																	808		
to 2-W																			-
d Party	VIE CHANGO	_														-803		+	
Add 3r	VIE Clientilli	_														1			→
28a																CONVERSATION A.B.			
<u> </u>	VTE Clent(A)	_						-								S		_	·>



948 946 Release 922 Release 924 (gg) ISUP-RLC ISUP-RLC 904 Archive Comm. Session ٧SP ISUP-REL [CIC=E-ISUP(B)] CloseSession (Session ID) SUP-REL [CIC=E-ISUP(A)] ISUP-REL [CIC=E-ISUP(A)] ISUP-REL [CIC=E-ISUP(B)] 942 930 왕 902 940 944 918 919 -920 928 938 ISUP-RLC 916 ISUP-REL ISUP-RLC ISUP-REL 806 ∟ 98 ISUP-RLC ISUP-REL -932 ISUP-RLC 934 Close 3-Way Voice Communications Session ISUP-REL (SS ZZ 912 ISUP-RLC (gg E ISUP-RLC -910 idle line (g × 006 idle line 936 VTE SHANKEL 914 Select Close Session YTE Client(B) Close(Session ID) FIG. 29 VTE CHEMICAL - 828

Ack

The same of the same of the

Conf. Bridge

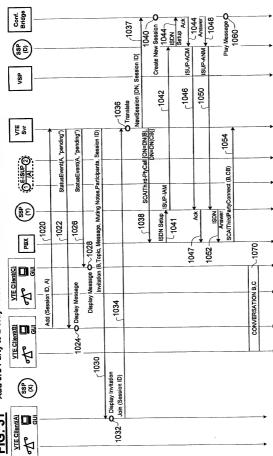
Conf. Bridge 970 Release (g e ISUP-RLC 996 ΛSΡ SessionClosed (Session ID) ISUP-REL [CIC=E-ISUP(C)] ISUP-REL [CIC=E-ISUP(C)] 964 963 -974 952 ş ISUP-RLC ISUP-REL Status Event (Session Type, Session ID, Closed) StatusEvent (Session Type, Session ID, Closed) Status Event (Session Type, Session ID, Closed) 096 ISUP-RLC 950 SUP-REL 954 926 ISUP-RLC (gs vi idle line 976~ 086 984 (gE (g × 986 928 C Remove Session A Colondo -982 S Remove Session VIECHONIED 826 YE Glood A

FIG. 29a close 3-Way Voice Communications Session (Cont.)

FIG. 30 Set Up 2-Way Voice Communications Session - Enterprise Network

VSP SSP Conf. (D) Bridge		Solon ID			-				-					→
E CIIONICO SSP (M)	SessionRequest (Session Type, Topic, Message)	992 Assign Session ID	SCAICONNECT (ON=DN(B), DN=DN(C)]" 994			Answer (1004	SCAlConnect (B,C)	StatusEvent (Session Type, Session ID, B, C)	1012 StatusEvent (Session Type, Session ID, B, C)	ssion (1016 StatusEvent (Session Type, Session ID, B, C)	Oisplay Session	(1018	61019	→ → →
	SessionRedu			Answer (1000						O Display Session	71014		CONVERSATION B,C	
VECHONIAN SSP OF ON				 , «					O Display Session	C1010			101	

Add 3rd Party to 2-Way Voice Communications Session - Enterprise Network FIG. 31



Conf. Bridge 1118 Join (A,B:C) O Play Tone O Setup Ack 1103 Answer 1120 NC S ISUP-ANM 1100 ISUP-ACM Add (DN, Session ID) AddLeg(Sesion ID: DN(A); DN(CB)) ISUP-JAM [DN=DN(A); CIC-E-ISUP(A)] ΛSP CallCreated(A,B,C) ISUP-IAM [DN(CB); CIC=E- 4 1082 1110 1112 1104 ر1106 1096 **C1116** 1090 FIG. 31a Add 3rd Party to 2-Way Voice Communications Session - Enterprise Network (Cont.) š Status Event (Session Type, A, B, C) StatusEvent (Session Type, A,B,C) Status Event (Session Type, A, B, C) Status Event(A, "trying") StatusEvent(A, "trying") ISUP-ANM SUP-ACM ISUP-IAM 1098 ISUP-ACM ISUP-ANM ISUP-IAM [DN=DN(A)] 1132 O Update Session Display (β ε 1072 1076 1130 1078 O Display Message ХВА 71134 1122 -1126 C Update Session Display VTE Client(C) 1074 Display Message F 1084 1088 1094 VTE Client(B) CONVERSATION A,B,C Ŕ O Update Session Display ISUP-ACM ISUP-ANM (BS "Ring" 1092 1086 VIE Clionità 1124 Answer

The state of the s

FIG. 32 Convert 3-Way IM Session to 3-Way Voice Communications Session

SSP Conf. (D) Bridge			_				(1155	Create Session	1156			4476	NOSI		1177	+	1182		1192 1192
\preceq		_				1154	SessionIC	Š						ISUP-ACM		ISUP-ANM			L
m r qs		O Translate O Close IM Session				1152 O Translate	Session ID) NewSession (DN, SessionID)	ISUP-IAM [DN=DN(A); CIC=E-ISUP(A)]				SUP-IAM [DN=DN(CB); CIC=E-ISUP(A)]		4178		ر1184		CallCreated	,
S Y	Î	138	Closed)	, Closed)	, Closed)	1152		N=DN(A)				=DN(CB)						1188	
(O E-ISIN O			ype, Session ID	ype, Session ID	ype, Session ID			ISUP-IAM [ISUP-IAM (DI	ر1174		ر1180		ر1186		
			StatusEvent (Session Type, Session ID, Closed)	Status Event (Session Type, Session ID, Closed)	Status Event (Session Type, Session ID, Closed)			ر1157	1167	5	1170	ر1172	SUP-IAM [DN(CB)]		ACM		ACM		
(O)			Status	Status	Status				_	CM	NM	,	-SUP-		ISUP-ACM		ISUP-ACM		
	c1136			"	_					ISUP-ACM	ISUP-ANM								
(B) (B)			c1142	C1146	1148			NAI DI M	1162	1100	8								
(3 g)								-1158	١ .		- 1								
(%) (%)						Session			J di		ISUP-ANM								
	ssion Type)				ioi	O Remove Session	} 		"Ring"		Ĺ								
YTE CHOOLIG	on ID, Ses				A Remove Session	_			8	99	+								
	ion (Sessi		_	ession		71148			C1160	1166	1								
A K	ConvertSession (Session ID, Session Type)	-		O Remove Session	114						T				-				
VIE CHANKA	_ŏ			ŧō)				\downarrow	Answer	i i i								

FIG. 32a convert 3-Way IM Session to 3-Way Voice Communications Session (Cont.)

Conf. Bridge							1214 ISDN	Setup Ack	1215	Answer	1220		1	1230 John A.B.O	Play Tone	1232		
				_	_		12	Seti ISUP-ACM		SUP-ANM	_		-1228		_ 6.	_		
dS/	<u>=</u>			↑	†	16		ISUP	ļ.,		1	, <u>e</u> e	(Oluoi					
	ISUP-IAM [DN=DN(B); CIC=E-ISUP(B)]	1194				 SUP-IAM [DN=DN(CB); CIC=EISUP(B)]		ر1216		ر1222		CallCreated (B,	Add (DN, SessionID)					
Svr	B): CIC=	=		,		CB): CB)			_			(V	Add					
\vdash	NG=NG		1202		1208	NG=NG	2	_			4	1226						
(O EISUP (O)	SUP-IAM			W C	NN	UP-IAM	ISUP-IAM [DN(CB)] (1212		-1218		ر1224							
. <u>(o</u>				ISUP-ACM	SUP-ANM		DN(CB)		5		5							
		ISUP-IAM				ر1210	SUP-IAM		SUP-ACM		ISUP-ACM							
<u>(</u>	_	1					v –											
OE ISUP (Q)		1180	ر1200	-120B	3													
~		7			1													٠
(gg gg)	_		ISUP-ACM		ISUP-ANM													٠
(gg E)	-		Ring" ISU	1	<u>8</u>													۰
(g &)				40	_								_					>
		6		ر1204														۰
NE Shorts	_		+	_												-1234		>
VTE Clientia	5		+	Answer														۰
VIE CHOOL	_			⋖	ı											CONVERSATION A,B	-	*
VIE Client(A)	<u> </u>								-						_	CONVE		*
A															-			*

FIG. 32b Convert 3-Way IM Session to 3-Way Voice Communications Session (Cont.)

Conf. Bridge							1256	_		Ack	1257	Anomor		1262			1	1274	Join A, P.O.	1276			_	→
(g) (g)									Setup		,	_		12			۲.	12	Pla you	12				>
\preceq								12547		SIID-ACM			ISUP-ANM				1272 ₇							
VSP	UP(C)]	2	_	+	6	N(CB);	(C)J			1258		12607	12647	387		(A,B,C)	2							
	C=E-IS	1236	ç	12447	12507	P-IAM [D	CIC=E-ISUP(C)]			5	1	- 1	128	12687		Š	ISUP-ANM							
Sy ZE	ISUP-IAM [DN=DN(C);CIC=E-ISUP(C)]					138	Ĭ	ISUP-IAM				SUP-ACM		SUP-ANM	1270	· ·		,A,B,C)	,A,B,C)	A.B.C)				-
(©):	AM [DN=		-	CM	WN	1252	¥.	∞	L_		+	Ω		∱≅	_			ent (Call	ent (Call	ent (Call	t			→
O BO	ISUP-I	AM.		ISUP-ACM	ISUP-ANM	12							_					Status Event (Call, A, B, C)	StatusEvent (Call,A,B,C)	Status Event (Call A. B.C)	F			→
		ISUP-IAM	_1242		C1248																			→
		1238	ACM.		ANM								-					1278 م	1282 ₇	1286-				→
(gg (g)			ISI ID-ACM		ISUP-ANM														_	_	+			—
$\stackrel{\smile}{\sim}$		į	Ring																					
(§ E)		1240	0+7	1246																		O Display Session		
(§ §)					T																T	Display 17288	_1290	
VIE Clientic	_		1	Answer	F										_					Session	*			→
																				Display	√1284		A,B,C	
YE CHANGE				_															Session	<u>*</u> 0			SATION	→
			•																O Display Session	1280			CONVERSATION A,B,C	
VIE Glientia	_			_					_										<u>*</u> 0				Ŭ	→

FIG. 33 Set-up 2-way Multi-Media Session

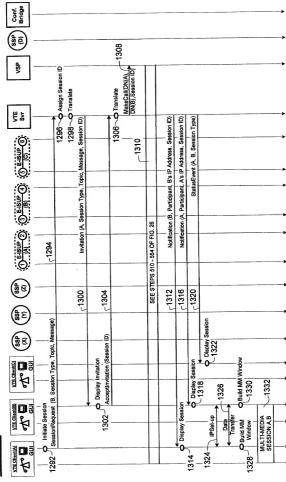


FIG. 34 Add 3rd Party to Multi-media Session

Conf. Bridge										1										•
(((((((((((((((((((_			356		1				<u>. </u>						•
d S								Ţ,	-	-							_			→
								Translate AddLeg(C(DN),	ssion ID)											
SY		1	í l	(gulpus	anding)		1	7	Š	٩	ddress)	ddress)	icipant)							→
(O)		Janes Const	Jes, Sessi	StatusEvent (C, Pending)	Status Event (C, Pending)			1354		3. 28 - 28	t, C's IP A	r, C's IP A	Status Event (C, Participant)							•
(GEISUP G		1	Sants/Invite	StatusE	StatusE		+			2 OF FIG	Participan	Participan	StatusEve							→
O ESUP O		1	ies, Partici		1					SEE STEPS 652 - 842 OF FIG. 28 - 28b	Notification (C, Participant, C's IP Address)	Notification (C, Participant, C's IP Address)								
			leeting Not	+						STEPS	- No	Noti								→
O F-ISUP (Q)			Invitation (A, Topic, Message, Meeting Notes, Participants/Invitees, Session ID)	ر1342	1346		-1352			SE	ر1360	1364	1368							
<u> </u>		1	A, Topic, A																	→
(SS SI)	1336	3	Invitation (1358					olay						
(38)				vitation			vitation n ID)							Update Session Display						
(₹8)		g Notes)	1338	Display Invitation			Accept Invitation Session ID)						Display	Update Se	_ 	1374		Window	7386	_
A Colleged O	_	ige, Meetir	Г	1340 -		Display Message	750	}					O Undate Session Display	* 0−	<u> </u>	21	DataTransfer	1380 C Build MM	18	→
] - }	pic, Messa			age	* O-	_					on Dienia	¥O gan	1372 1366	IPSet-up	DataTransfer		1	ESSION F	>
VIEGHOUTEB	initiate Add Party	AddParty(C, Topic, Message, Meeting Notes)	L		O Display Message		1348					Valuate Secsion Display		PSet-up		1376 Date	1382~	Rebuild MM O	MULTI-MEDIA SESSION A.B,C	>
VIE Clienta	,	Υ .			↓ <u>6</u>	4						15		PSe			Rebuild MMO	Mobula	MULTI	→
VIE Client]-	1334	_			1344							1362			1378~	Rebuild	\$		→

FIG. 35 Add 3rd Party to Multi-media Session (Deferred Acceptance)

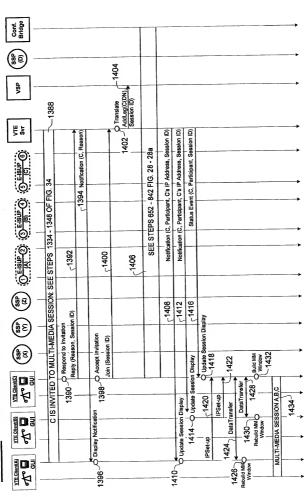


FIG. 36 Add 3rd Party to Multi-media Session (3rd Party Not Logged to VTE)

VSP SSP Conf. (D) Bridge		slate			C Find Alternate Device	Sali(C(DN),	CB(DN)) 1452	Invitation(A, C, Topic, Message, Session	7454		CaliCreated (C)	PlayInvitation (DN, Session ID)	1460	Text to Speech Conversion C	Announcement (A, Topic, Message, Session Type, Menu)	→
SY	1	1440 Translate	ending)	ending)	Pild O Find	1	CB(D	Invita	. Ahe		1458 Call	Playl	Ľ		cement (A, Top	
G EISUP G		4	Status Event (C, Pending)	StatusEvent (C, Pending)		4 -				OF FIG. 28b					Announ	
OF-ISUP Q							_			SEE STEPS 804 - 834 OF FIG. 28b					1464	,
O E-ISUP (Q)	ر1438		ر1442	ر1446						SEE ST						,
ds (zi						-			1456							
(gg E)	- Ssion ID)					_				F						,
(8) (S)	Notes, Se			-	-					\vdash				-		
VTE Clenifo	Initiate Invitation AddParty(C, Topic, Message, Meeting Notes, Session ID)				O Display Message											
	on - oic, Mess	L		age .												
VIE Cleant®	Initiate Invitation			Display Message		1448										
VIE Cliental	1436 Add			↑.	1444											

FIG. 36a Add 3rd Party to Multi-media Session (3rd Party Not Logged on to VTE) (Cont.)

١,	VSP SSP Conf. (D) Bridge		LogonInstruction	Accept (Session ID)			pag	<u>[]</u>												→
	(SS) (OFISIPO (OFISIPO SVE) SVE (VSP	21468	0.1470	14727	1474	SEE STEPS 652 - 842 OF FIG. 28 - 28b	1476 CallCreated	C1478	Notification (C, Participant, C's IP Address)	1484 Notification (C, Participant, C's IP Address)	O Sessioninfo. (Topic, Meeting Notes, Participants/Invitees, Session ID	7494 StatusEvent C. Participant, Session ID)	1							
	VIEGIONALA VIEGIONALE SSP (XI)	_						Login (User Name, Password)		O Update Session Display	1482 Oupdate Session Display	1486 Auld Session Window	1496 Update Session Display	IPSet-up	DataTransfer	Rebuild MMO Data Transfer	1504 Rebuild MM 1506 Suild MM	1508	MULTI-MEDIA SESSION A,B,C	727